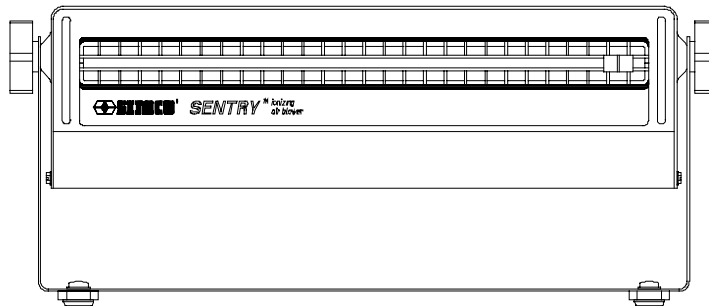


User's Manual

Ionizing Air Blower, type:

AEROSTAT[®] Sentry[™]



Ionizing Air Blower, type: Aerostat Sentry

CONTENTS

	Page
1. Introduction	3
2. Safety	3
3. Use and operations	3
4. Technical specification	3
5. Installation	4
6. Putting into use	4
7. Functional check	5
8. Maintenance	5
9. Faults	6
10. Repair	6
11. Diposal	7
12. Spares	7

Ionizing Air Blower, type: Aerostat Sentry

1. Introduction

Read this manual completely before you install and put this product into use.

Follow the instructions set out in this manual to ensure proper operation of the product and to be able to invoke guarantee.

The guarantee terms are stated in the General Conditions for the Sale and Delivery of Products and/or Performance of Activities by Relstatic AG.

2. Safety

- The Aerostat[®] Sentry[™] is only designed to neutralize static electricity.
- Do not use the Aerostat[®] Sentry[™] in fire and/or explosion hazardous environments.
- Make sure that the equipment is properly earthed.
Earthing is needed to ensure proper operation and to avoid electrical shocks upon contact.
- When carrying out work on the equipment: de-energise the equipment.
- Electrical installation and repairs shall be done by a skilled electrical engineer.
- Do not put any objects through the outlet grating.
They may get into contact with live parts.
- If changes, adjustments, etc. have been made without prior consent in writing, or if no original parts have been used for repairs, CE approval of the equipment will be withdrawn.

3. Use and operation

The Sentry[™] is used in places where static electricity causes problems. The Sentry[™] is capable of neutralizing three-dimensional objects (e.g. moulded products) and larger areas.

The Sentry[™] produces a wide, electrically charged air flow with positive and negative ions.

When this air flow is pointed to an electrostatically charged area, ions are exchanged until the area is neutral. The air velocity of the Sentry[™] can be adjusted to 3 positions. The equipment has a built-in brush to clean the emitter points.

4. Technical specifications

Mains voltage:	230 V AC; 50 Hz.
Current:	max. 0.5A
Operating temperature:	0 - 50°C
Operating conditions:	Industrial
Air volume:	120 - 205 m ³ /h
Air velocity:	1.7 - 2.7 m/s measured at 60 cm distance
Range:	area of 90 cm x 180 cm
Noise level:	64 dB, measured at 60 cm distance at maximum speed
Ozone production:	0.005 ppm, measured at 15 cm distance at the front
Standards:	in accordance with European directives

Optional:

air filter: open-cell polyurethane foam, 30 PPI

Ionizing Air Blower, type: Aerostat Sentry

5. Installation

5.1. Checks

- Check that the Sentry™ is undamaged and that you have received the correct version.
- Check that the data on the packing slip corresponds with the data shown on the product received.
- Check that the voltage shown on the rating plate corresponds with the mains voltage.

*If you have any problems and/or in the case of ambiguity:
please contact Relstatic AG.*

5.2. Installation

5.2.1. Summary

Position the Sentry™ so that it blows freely over the area to be discharged.
The discharging time depends on distance and air velocity. Discharging will be faster if the distance is reduced (to 15 cm min.) or the air velocity is increased.

5.2.2. Installation

1. Fit the Sentry™ with the handle, using both star knob screws.
Attention: Mount the lock washer between the handle and the box.
2. Place/mount the Sentry™ 30-90 cm away from the area to be neutralized.
3. Connect the Sentry™ to your machine or fit an earthed plug.
blue = neutral; brown = phase; yellow/green = earth
4. Put the [POWER] switch off [0].
5. Connect the Sentry™ to the mains voltage.



Warning:

- **Make sure that the equipment is properly earthed.**

6. Putting into use

1. Put the [POWER] switch to [1].
2. Set the required air velocity, using the [FAN SPEED] switch.
3. Point the air flow to the area to be discharged.
(Tilt the Sentry™ in the handle).

Ionizing Air Blower, type: Aerostat Sentry

7. Functional check

7.1. Checks

The [POWER INDICATOR] lamp indicates that high voltage is on.

7.2. Measuring efficiency with a SIMCO electrostatic fieldmeter

1. Take a piece of plastic foil and charge it by rubbing.
2. Measure the static charge on the plastic foil.
3. Hold the plastic in the ionized air flow at 30 cm distance for 5 seconds.
4. Measure again: The static charge should now have disappeared.

7.3. Showing efficiency, using transparent tape

1. Tear approx. 30 cm tape from the reel and hold it vertically.
2. Move your hand (or an earthed area) to the unglued side of the tape.
3. The tape is now attracted by your hand.
4. Hold the tape in the ionized air flow at 30 cm distance for approx. 5 seconds.
5. Move your hand to the tape again.
6. If the tape is no longer attracted by your hand, the static charge has disappeared.



Warning:

- **Operation must not be checked by a high-voltage spark.
Long-time sparking may damage the balancing.**

8. Maintenance

8.1. Summary

To ensure proper operation of the Sentry™, it is essential to clean the emitter points and filter regularly.

8.2. Cleaning the emitter points

Slide the brush several times back and forth in the outlet grating.

8.3. Cleaning the filter (optional)

1. Slide the filter out of the holder.
2. Blow-clean the filter and/or flush it with water.
3. Check that the filter is completely dry.
4. Slide the filter back into the holder.

If heavily fouled: wash out the filter, using soft soap, and flush it properly, or replace the filter.

Ionizing Air Blower, type: Aerostat Sentry

9. Faults



Warning:

- When carrying out work on the equipment: de-energise the equipment.

Problem	Cause	Remedy
Indicator lamp (HV indicator) stays dark.	No mains voltage	Connect mains voltage
	Faulty (POWER) switch	Replace the switch
	Faulty lamp (HV indicator)	Replace lamp
No ionization / high voltage (HV indicator lamp stays dark)	HV wiring interrupted	Restore wiring
	Faulty HV transformer	Replace HV transformer
Operation (reduced ionization)	Fouling of emitter points	Clean the emitter points
Fan does not operate (no air flow)	No voltage on fan	Find cause and remedy
	Faulty fan	Replace the fan
Insufficient air flow	Filter fouled and/or clogged	Clean or replace filter

Table 1: faults

10. Repair



Warning:

- When carrying out work on the equipment: De-energise the equipment.
- Repairs shall be made by a skilled electrical engineer.

When opening the Sentry™ you may touch parts under hazardous voltage.

Ion emission has been balanced in the design of the Sentry™. The ion balance cannot be adjusted and special measuring equipment is needed for checking.

SIMCO recommends that you return the Sentry™ for repair.

Pack it properly and clearly state the reason for return.

Ionizing Air Blower, type: Aerostat Sentry

11. Disposal

Adhere to the applicable local environmental and other rules when disposing of the equipment.

12. Spares

<u>Item No.</u>	<u>Description</u>
66.59.50.0150	Fan
66.60.20.0010	HV transformer
66.59.50.0155	Air guide with ionizer
66.60.20.1000	Brush
66.60.20.4000	(POWER) switch
66.60.20.4500	Switch with [FAN SPEED] button
66.60.20.5000	Neon lamp

Optionals:

66.59.50.0200	Filter set (filter + handles)
66.59.90.0200	Filter